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SEQUENCE LISTING

- (1) GENERAL INFORMATION:
 - (i) APPLICANT: Palese, Peter Garcia-Sastre, Adolfo
 - (ii) TITLE OF INVENTION: RECOMBINANT NEGATIVE STRAND RNA VIRUS EXPRESSION SYSTEMS AND VACCINES
 - (iii) NUMBER OF SEQUENCES: 60
 - (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Pennie & Edmonds
 - (B) STREET: 1155 Avenue of the Americas
 - (C) CITY: New York
 - (D) STATE: New York
 - (E) COUNTRY: USA
 - (F) ZIP: 10036-2711
 - (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible

 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25
 - (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/252,508
 (B) FILING DATE: 01-JUN-1994
 (C) CLASSIFICATION:
 - (viii) ATTORNEY/AGENT INFORMATION:

 - (A) NAME: Coruzzi, Laura A. (B) REGISTRATION NUMBER: 30,742
 - (C) REFERENCE/DOCKET NUMBER: 7682-034
 - (ix) TELECOMMUNICATION INFORMATION:

 - (A) TELEPHONE: (212) 790-9090 (B) TELEFAX: (212) 869-9741/8864 (C) TELEX: 66141 PENNIE
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

TACGAGGAAA TGTTCCTGTT A

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 19 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
Gln Leu Val Trp Met Ala Cys Asn Ser Ala Ala Phe Glu Asp Leu Arg 1 5 10 15	
Val Leu Ser	
(2) INFORMATION FOR SEQ ID NO:3:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
Thr Tyr Gln Arg Thr Arg Gln Leu Val Arg Leu Thr Gly Met Asp Pro 1 5 10 15	
(2) INFORMATION FOR SEQ ID NO:4:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GAAGCTTAAT ACGACTCACT ATAAGTAGAA ACAAGGGTGT TTTTTCATAT CATTTAAACT	60
TCACCCTGCT TTTGCTGAAT TCATTCTTCT GCAGG	95
(2) INFORMATION FOR SEQ ID NO:5:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 95 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:	
GAAGCTTAAT ACGACTCACT ATAAGCAAAA GCAGGGTGAA GTTTAAATGA TATGAAAAAA	60
CACCCTTGTT TCTACTGAAT TCATTCTTCT GCAGG	95
(2) INFORMATION FOR SEQ ID NO:6:	

(ii) MOLECULE TYPE: peptide

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 68 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:	
AGCTTAATAC GACTCACTAT AAGATCTATT AAACTTCACC CTGCTTTTGC TGAATTCATT	60
CTTCTGCA	68
(2) INFORMATION FOR SEQ ID NO:7:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	·
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:	
GAAGAATGAA TTCAGCAAAA GCAGGGTGAA GTTTAATAGA TCTTATAGTG AGTCGTATTA	60
(2) INFORMATION FOR SEQ ID NO:8:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
CCGAATTCTT AATACGACTC ACTATAAGTA GAAACAAGGG TG	42
(2) INFORMATION FOR SEQ ID NO:9:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
CCTCTAGACG CTCGAGAGCA AAAGCAGGTG	30
(2) INFORMATION FOR SEQ ID NO:10:	

	(A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
CACC	CUGCUU UUGCU	15
(2)	INFORMATION FOR SEQ ID NO:11:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
CACC	CUGCUU UUACU	15
(2)	INFORMATION FOR SEQ ID NO:12:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
CACC	CUGCUU CUGCU	15
(2)	INFORMATION FOR SEQ ID NO:13:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
CACC	cuguuu uugcu	15
(2)	INFORMATION FOR SEQ ID NO:14:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid	

	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
CAC	CCUUGCU UUUGCU	16
(2)	INFORMATION FOR SEQ ID NO:15:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
CD C	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
	THEORNATION FOR ORD IN NO. 16	15
(2)	INFORMATION FOR SEQ ID NO:16: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
CACC	ccuguuu cugcu	15
(2)	INFORMATION FOR SEQ ID NO:17:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
CACC	CCUUGCU UUUACU	16
(2)	INFORMATION FOR SEQ ID NO:18:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	

(C) STRANDEDNESS: single (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
CACCCUUGUU UUUACU	16
(2) INFORMATION FOR SEQ ID NO:19:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 16 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: RNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
CACCCUUGUU UCUACU	16
(2) INFORMATION FOR SEQ ID NO:20:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
CTAGACGCCC TGCAGCAAAA GCAGGGTGAC AAAGACATAA TGGAGAAAAA AATCACTGGG	60
TATACCACCG TTGATATATC CCAATCGCAT CGTAAA	96
(2) INFORMATION FOR SEQ ID NO:21:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
STTCTTTACG ATGCGATTGG GATATATCAA CGGTGGTATA CCCAGTGATT TTTTTCTCCA	60
TTATGTCTTT GTCACCCTGC TTTTGCTGCA GGGCGT	96
(2) INFORMATION FOR SEQ ID NO:22:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	

(ii) MOLECULE TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
ACTGC	GATGA GTGGCAGGGC GGGGCGTAAT AGAT	3
(2) I	NFORMATION FOR SEQ ID NO:23:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
CTAGA!	TCTAT TACGCCCCGC CCTGCCACTC ATCGCAGT	38
(2) II	NFORMATION FOR SEQ ID NO:24:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 34 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(:	ii) MOLECULE TYPE: DNA	
	·	
()	xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
ACTGC	GATGA GTGGCAGGCC GGGGCGTAAT AGAT	34
(2) I	NFORMATION FOR SEQ ID NO:25:	
,	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(i	ii) MOLECULE TYPE: DNA	
()	xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
CTAGAT	ICTAT TACGCCCGC CCTGCCACTC ATCGCAGT	38
(2) I	NFORMATION FOR SEQ ID NO:26:	
•	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 97 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
()	ii) MOLECULE TYPE: DNA	

(ii) MOLECULE TYPE: DNA

(XI) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
CTAGACGCCC TGCAGCAAAA GCAGGGTGAC AAAGACATAA TGGAGAAAAA AAATCACTGG	60
GTATACCACC GTTGATATAT CCCAATCGCA TCGTAAA	97
(2) INFORMATION FOR SEQ ID NO:27:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
GTTCTTTACG ATGCGATTGG GATATATCAA CGGTGGTATA CCCAGTGATT TTTTTCTCCA	60
TTATGTCTTT GTCACCCTGC TTTTGCTGCA GGGCGT	96
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
CGGAATTCTC TTCGAGCGAA AGCAGGAGTT	30
(2) INFORMATION FOR SEQ ID NO:29:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
CATGGGTGAG TTTCGACCAA AATCTAGATT ATAAAATAGG ATACATATGC A	51
(2) INFORMATION FOR SEQ ID NO:30:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: DNA	

	(x1) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
(CATGGGTGAG TTTCGACCAA AATCTAGATT ATAAAATAGG ATACATATGC A	51
	(2) INFORMATION FOR SEQ ID NO:31:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	٠
	(ii) MOLECULE TYPE: DNA	•
	•	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	•
2	AATGTATCCT ATTTTATAAT CTAGATTTTG GTCGAAACTC ACC	43
((2) INFORMATION FOR SEQ ID NO:32:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
C	GGCCACTAGT AGGTCGACGC CGGC	24
((2) INFORMATION FOR SEQ ID NO:33:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
G	GCGCTGGCCA TCTTGCCAGC CA	22
((2) INFORMATION FOR SEQ ID NO:34:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid / (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
70	CAAAAAAA CACTCCC	1 7

(2) INFORMATION FOR SEQ ID NO:35:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 17 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
TTACGCCCCG CCCTGCC	17
(2) INFORMATION FOR SEQ ID NO:36:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
GCGCATCGAT AGGTCGACGC CGG	23
(2) INFORMATION FOR SEQ ID NO:37:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
GGCCATCGAT CCAATGGTTA TTATTTTCTG GTTTGGATTC ATCTTGCCAG TTGGG	55
(2) INFORMATION FOR SEQ ID NO:38:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 91 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
ATGACTGGAT CCGCTAGCAT GGCCATCATT TATCTCATTC TCCTGTTCAC AGCAGTGAGA	60
GGGGACCAGA TAGAAGAATC GCAAAACCAG C	91
(2) INFORMATION FOR SEO ID NO:39:	

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:39:	
ATG	ACAGA	AT TCGTCGACTT ATCTATTCAC TACAGAAAG	39
(2)	INFO	RMATION FOR SEQ ID NO:40:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:40:	
GCGC	CGAAG	AC GCAGCAAAAG CAGGAGTTTA AGCTAGCATG GCCATCATTT ATC	53
(2)	INFO	RMATION FOR SEQ ID NO:41:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:	
CGAI	rggato	CC GCTAGCTTGG AATCGATGGG GGTGTATC	38
(2)	INFO	RMATION FOR SEQ ID NO:42:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
٠.	(ii)	MOLECULE TYPE: DNA	
		· ,	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:	
ATCG	SATGA	AT TCGTCGACTC AGATGCATAT TCTGCAC	37
(2)	INFOR	RMATION FOR SEQ ID NO:43:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid	

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
ATGACTGTCG ACCCATGGAA GTCAATCGAT GTTATGTTAA ACCAATTCCA C	51
(2) INFORMATION FOR SEQ ID NO:44:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GCGCGAATTC TCTTCGAGCA AAAGCAGG	28
(2) INFORMATION FOR SEQ ID NO:45:	20
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	
AGAGATGAAT TGCCGGTT	18
(2) INFORMATION FOR SEQ ID NO:46:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 6 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
Glu Leu Asp Lys Trp Ala 1 5	
(2) INFORMATION FOR SEQ ID NO:47:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	

(C) STRANDEDNESS: single (D) TOPOLOGY: unknown

	(ii) MOLECULE TYPE: RNA	
	<pre>(ix) FEATURE: (A) NAME/KEY: misc_feature (B) LOCATION: 9 (D) OTHER INFORMATION: /label= y</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
CCUG	SCUUUYG CU	12
(2)	INFORMATION FOR SEQ ID NO:48:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
AGUA	GAAACA AGGUGUUUU UU	22
	INFORMATION FOR SEQ ID NO:49:	22
(-)	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 52 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:	
AGUA	GAAACA AGGGUGUUUU UUCAUAUCAU UUAACUUCAC CCUGCUUUUG CU	52
(2)	INFORMATION FOR SEQ ID NO:50:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
	AAAGCA GGGUGAAGUU UAAAUGAUAU GAAAAAACAC CCUUGUUUCU ACU	53
(2)	INFORMATION FOR SEQ ID NO:51:	

	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: unknown 	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	
AGAU	JCUAUUA AACUUCACCC UGCUUUUGCU	30
(2)	INFORMATION FOR SEQ ID NO:52:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
AGUA	GAAACA AGGGUGUUUU UUCAGAUCUA UUACGCCCCG CCC	43
(2)	INFORMATION FOR SEQ ID NO:53:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
AGUA	GAAACA AGGAG	15
(2)	INFORMATION FOR SEQ ID NO:54:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 14 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
	(ii) MOLECULE TYPE: RNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
AGUA	GAAACA AGAG	14
(2)	INFORMATION FOR SEQ ID NO:55:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid	

(C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: RNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
CCUGCUUUCG CU	
(2) INFORMATION FOR SEQ ID NO:56:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
	53
CCATGGGTGA GTTTCGACCA AAATCTAGAT TATAAAATAG GATACATATG CAG	53
(2) INFORMATION FOR SEQ ID NO:57:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
CCTGCAGAAG AATGA	15
(2) INFORMATION FOR SEQ ID NO:58:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: RNA	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
GUGGUAUACC CAGUGAUUUU UUUCUCCAUU AUGUCUUUGU CACCCUGCUU UUGCU	45
(2) INFORMATION FOR SEQ ID NO:59:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: RNA	

(XI) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
CUGCAGAUGU AUCCUAUUUU AUAAUCUAGG UUUUGGUCGA AGGACACCCA UGG	53
(2) INFORMATION FOR SEQ ID NO:60:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: PNA	

(XI) SEQUENCE DESCRIPTION: SEQ ID NO:60:

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